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Love, Mom

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- Ideal for stills and image editing, video conferencing, PC-to-TV video transfer, MP3
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- Separate video upgrade module for Matrox Millennium II (available \$119)

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- Most for viewing TV on the PC and recording TV programs on your PC
- Includes PC-VCR Remote control

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COMPARE!!!

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Level 2 cache	up to 1MB	Go ask
168 pin memory	up to 3 slots	Find out
ATX form card	Yes	Unlikely
ISA slots	three or four	Usually some
Nation-wide Warranty	Two year replacement	Hard to match
Accelerated Graphics (AGP)	Yes on M710	Better check
Post Factory Testing	Yes (24 hour burn-in)	Maybe, maybe not
Pre-jumping	Yes (with cpu purchase)	For a price
Price/performance	Market leader	Distant second

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- For Pentium 5 to 33MHz
- Supports F2 up to P for fast installation
- Intel 486 LX chip set
- Supports SD and EDO RAM up to 384MB 3 DIMM slots
- Supports Ultra DMA HDD and L2 8MB FDD (1MB transfer rate)
- Four PCI and three ISA slots
- AMD Plug'n'Play flash BIOS
- ATX form card AGP Accelerated Graphics Port support
- Bi-directional parallel port / ECP / LPP

\$118

M572 Mainboard

suggested retail price

- For Pentium 5MHz to 33MHz
- Supports Intel MMX, AMD K5, 586/Cyrix 6x86 and M2
- Intel 486 LX chip set
- 32K Pipeline Level cache
- Supports Fast Page, SD, and EDO RAM up to 256MB
- 4 SIMA and 2 DIMM slots
- Supports Ultra DMA HDD and 1MB transfer rate FDD
- Four PCI and three ISA slots
- Up to 72MHz bus speed
- AMD Plug'n'Play flash BIOS
- ATX form card port and P.O.P features for easy ODD installation
- Bi-directional parallel port / ECP / LPP
- Supports 6.25, 1.44, 3.5 floppy disk drive

\$112

M575 Mainboard

suggested retail price

- For Pentium 5MHz to 33MHz
- Supports Intel MMX, AMD K5, 586/Cyrix 6x86 and M2
- 32 pin chip set
- 1 MB Pipeline Level cache
- Supports Fast Page, SD, EDO, and EDO RAM up to 384MB
- Can run with single slot of 32-pin RAM
- Three 168-pin DIMM and four 72-pin SMM slots
- Supports Ultra DMA HDD and 1MB transfer rate FDD
- Four PCI and three ISA slots
- Up to 60 MHz bus speed
- AMD Plug'n'Play flash BIOS
- ATX form card support
- Bi-directional parallel port / ECP / LPP
- Supports 6.25, 1.44, 3.5 floppy disk drive

\$108

M571 Mainboard

suggested retail price

- For Pentium 5MHz to 33MHz
- Supports Intel MMX, AMD K5, 586/Cyrix 6x86 and M2
- 32 pin chip set
- 32K Pipeline Level cache
- Supports Fast Page, SD, and EDO, RAM up to 384MB
- Two 168-pin DIMM and four 72-pin SMM slots
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WHAT'S NEW

Netscape browser and source code goes for free • In an attempt to make its browser market share Netscape Communications took a bold step by making its Netscape Navigator and Communicator Standard Edition 4.0 software products free for all users. This is a direct response to Microsoft Chairman Bill Gates' pledge a year ago to make his Internet Explorer free to all users.

This act is designed to remove any barrier of Netscape's browser and communications products from being adopted by individuals at home, school or at work or those performing Internet's in the Internet.

While this plan will undoubtedly benefit the average Web surfer, the move is more an announcement to Internet watchers that Netscape's plan to make the source code for

the next generation of its highly popular Netscape Communicator client software—expected by the end of the last quarter of 1996—available for free.

The strategy behind this is to gain ground "most often" in the programming community by trying to better harness the creative energies of the thousands of programmers who can now create enhancements and custom-

izations of Netscape's programs that are tightly integrated with the browser. This would further accelerate the development and distribution of future versions of Netscape Communicator to business customers and technicians, thereby further selling the market for Netscape's enterprise solutions and Netscape business.

Jim Baskerville, Netscape's president and chief executive officer, said that "by giving away the source code for future versions, we can ignore the cost for changes of the code that continuously and fast update desired levels of integration in the browser market."

Separately, Netscape announced a net loss of US\$11.5 million, an increase of \$5.9 million for the year ending Dec. 31, 1994. The company said a poor fourth-quarter shipped down performance for the year. The company reported a fourth-quarter operating loss of \$20.8 million on a total loss for the quarter, including charges of \$98.1 million.—EJL

Circle Reader: Tel: 416-557-2222
http://www.netscape.com/

HP's all-in-one Officejet 435 does color • For its home and small office market Hewlett-Packard Canada has introduced a multifunction driver and scanner as a color printer. The machine is color and input.

The Officejet 435 will print black text at 5 ppm, color at 2 ppm. It will scan at up to 1,200 dpi and supports both 24-bit color and 256-level grayscale scanning. The fax feature includes speed dialing, robust memory that will hold up to 45 pages and a 14-400px fax modem.

The support will also be in the Officejet 435 is \$419, which includes Canon FaxBoard 2.0 and Canon OneImage L3 software.—EJL

Circle Reader: Tel: 800-367-1987

Fujitsu launches 6.48 GB UltraDMA drive • Fujitsu, one of the principal suppliers of hard drives in the Canadian PC industry, has announced a new generation of high-speed high capacity ATA UltraDMA, ultra slim, slimline, slimline and 4.8 GB hard drives.

The new UltraDMA drives, with an ultra rugged hard drive of 1400, are available in other affordable sizes ranging from 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0, 32.0, 33.0, 34.0, 35.0, 36.0, 37.0, 38.0, 39.0, 40.0, 41.0, 42.0, 43.0, 44.0, 45.0, 46.0, 47.0, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0, 58.0, 59.0, 60.0, 61.0, 62.0, 63.0, 64.0, 65.0, 66.0, 67.0, 68.0, 69.0, 70.0, 71.0, 72.0, 73.0, 74.0, 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 81.0, 82.0, 83.0, 84.0, 85.0, 86.0, 87.0, 88.0, 89.0, 90.0, 91.0, 92.0, 93.0, 94.0, 95.0, 96.0, 97.0, 98.0, 99.0, 100.0, 101.0, 102.0, 103.0, 104.0, 105.0, 106.0, 107.0, 108.0, 109.0, 110.0, 111.0, 112.0, 113.0, 114.0, 115.0, 116.0, 117.0, 118.0, 119.0, 120.0, 121.0, 122.0, 123.0, 124.0, 125.0, 126.0, 127.0, 128.0, 129.0, 130.0, 131.0, 132.0, 133.0, 134.0, 135.0, 136.0, 137.0, 138.0, 139.0, 140.0, 141.0, 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714.0, 715.0, 716.0, 717.0, 718.0, 719.0, 720.0, 721.0, 722.0, 723.0, 724.0, 725.0, 726.0, 727.0, 728.0, 729.0, 730.0, 731.0, 732.0, 733.0, 734.0, 735.0, 736.0, 737.0, 738.0, 739.0, 740.0, 741.0, 742.0, 743.0, 744.0, 745.0, 746.0, 747.0, 748.0, 749.0, 750.0, 751.0, 752.0, 753.0, 754.0, 755.0, 756.0, 757.0, 758.0, 759.0, 760.0, 761.0, 762.0, 763.0, 764.0, 765.0, 766.0, 767.0, 768.0, 769.0, 770.0, 771.0, 772.0, 773.0, 774.0, 775.0, 776.0, 777.0, 778.0, 779.0, 780.0, 781.0, 782.0, 783.0, 784.0, 785.0, 786.0, 787.0, 788.0, 789.0, 790.0, 791.0, 792.0, 793.0, 794.0, 795.0, 796.0, 797.0, 798.0, 799.0, 800.0, 801.0, 802.0, 803.0, 804.0, 805.0, 806.0, 807.0, 808.0, 809.0, 810.0, 811.0, 812.0, 813.0, 814.0, 815.0, 816.0, 817.0, 818.0, 819.0, 820.0, 821.0, 822.0, 823.0, 824.0, 825.0, 826.0, 827.0, 828.0, 829.0, 830.0, 831.0, 832.0, 833.0, 834.0, 835.0, 836.0, 837.0, 838.0, 839.0, 840.0, 841.0, 842.0, 843.0, 844.0, 845.0, 846.0, 847.0, 848.0, 849.0, 850.0, 851.0, 852.0, 853.0, 854.0, 855.0, 856.0, 857.0, 858.0, 859.0, 860.0, 861.0, 862.0, 863.0, 864.0, 865.0, 866.0, 867.0, 868.0, 869.0, 870.0, 871.0, 872.0, 873.0, 874.0, 875.0, 876.0, 877.0, 878.0, 879.0, 880.0, 881.0, 882.0, 883.0, 884.0, 885.0, 886.0, 887.0, 888.0, 889.0, 890.0, 891.0, 892.0, 893.0, 894.0, 895.0, 896.0, 897.0, 898.0, 899.0, 900.0, 901.0, 902.0, 903.0, 904.0, 905.0, 906.0, 907.0, 908.0, 909.0, 910.0, 911.0, 912.0, 913.0, 914.0, 915.0, 916.0, 917.0, 918.0, 919.0, 920.0, 921.0, 922.0, 923.0, 924.0, 925.0, 926.0, 927.0, 928.0, 929.0, 930.0, 931.0, 932.0, 933.0, 934.0, 935.0, 936.0, 937.0, 938.0, 939.0, 940.0, 941.0, 942.0, 943.0, 944.0, 945.0, 946.0, 947.0, 948.0, 949.0, 950.0, 951.0, 952.0, 953.0, 954.0, 955.0, 956.0, 957.0, 958.0, 959.0, 960.0, 961.0, 962.0, 963.0, 964.0, 965.0, 966.0, 967.0, 968.0, 969.0, 970.0, 971.0, 972.0, 973.0, 974.0, 975.0, 976.0, 977.0, 978.0, 979.0, 980.0, 981.0, 982.0, 983.0, 984.0, 985.0, 986.0, 987.0, 988.0, 989.0, 990.0, 991.0, 992.0, 993.0, 994.0, 995.0, 996.0, 997.0, 998.0, 999.0, 1000.0, 1001.0, 1002.0, 1003.0, 1004.0, 1005.0, 1006.0, 1007.0, 1008.0, 1009.0, 1010.0, 1011.0, 1012.0, 1013.0, 1014.0, 1015.0, 1016.0, 1017.0, 1018.0, 1019.0, 1020.0, 1021.0, 1022.0, 1023.0, 1024.0, 1025.0, 1026.0, 1027.0, 1028.0, 1029.0, 1030.0, 1031.0, 1032.0, 1033.0, 1034.0, 1035.0, 1036.0, 1037.0, 1038.0, 1039.0, 1040.0, 1041.0, 1042.0, 1043.0, 1044.0, 1045.0, 1046.0, 1047.0, 1048.0, 1049.0, 1050.0, 1051.0, 1052.0, 1053.0, 1054.0, 1055.0, 1056.0, 1057.0, 1058.0, 1059.0, 1060.0, 1061.0, 1062.0, 1063.0, 1064.0, 1065.0, 1066.0, 1067.0, 1068.0, 1069.0, 1070.0, 1071.0, 1072.0, 1073.0, 1074.0, 1075.0, 1076.0, 1077.0, 1078.0, 1079.0, 1080.0, 1081.0, 1082.0, 1083.0, 1084.0, 1085.0, 1086.0, 1087.0, 1088.0, 1089.0, 1090.0, 1091.0, 1092.0, 1093.0, 1094.0, 1095.0, 1096.0, 1097.0, 1098.0, 1099.0, 1100.0, 1101.0, 1102.0, 1103.0, 1104.0, 1105.0, 1106.0, 1107.0, 1108.0, 1109.0, 1110.0, 1111.0, 1112.0, 1113.0, 1114.0, 1115.0, 1116.0, 1117.0, 1118.0, 1119.0, 1120.0, 1121.0, 1122.0, 1123.0, 1124.0, 1125.0, 1126.0, 1127.0, 1128.0, 1129.0, 1130.0, 1131.0, 1132.0, 1133.0, 1134.0, 1135.0, 1136.0, 1137.0, 1138.0, 1139.0, 1140.0, 1141.0, 1142.0, 1143.0, 1144.0, 1145.0, 1146.0, 1147.0, 1148.0, 1149.0, 1150.0, 1151.0, 1152.0, 1153.0, 1154.0, 1155.0, 1156.0, 1157.0, 1158.0, 1159.0, 1160.0, 1161.0, 1162.0, 1163.0, 1164.0, 1165.0, 1166.0, 1167.0, 1168.0, 1169.0, 1170.0, 1171.0, 1172.0, 1173.0, 1174.0, 1175.0, 1176.0, 1177.0, 1178.0, 1179.0, 1180.0, 1181.0, 1182.0, 1183.0, 1184.0, 1185.0, 1186.0, 1187.0, 1188.0, 1189.0, 1190.0, 1191.0, 1192.0, 1193.0, 1194.0, 1195.0, 1196.0, 1197.0, 1198.0, 1199.0, 1200.0, 1201.0, 1202.0, 1203.0, 1204.0, 1205.0, 1206.0, 1207.0, 1208.0, 1209.0, 1210.0, 1211.0, 1212.0, 1213.0, 1214.0, 1215.0, 1216.0, 1217.0, 1218.0, 1219.0, 1220.0, 1221.0, 1222.0, 1223.0, 1224.0, 1225.0, 1226.0, 1227.0, 1228.0, 1229.0, 1230.0, 1231.0, 1232.0, 1233.0, 1234.0, 1235.0, 1236.0, 1237.0, 1238.0, 1239.0, 1240.0, 1241.0, 1242.0, 1243.0, 1244.0, 1245.0, 1246.0, 1247.0, 1248.0, 1249.0, 1250.0, 1251.0, 1252.0, 1253.0, 1254.0, 1255.0, 1256.0, 1257.0, 1258.0, 1259.0, 1260.0, 1261.0, 1262.0, 1263.0, 1264.0, 1265.0, 1266.0, 1267.0, 1268.0, 1269.0, 1270.0, 1271.0, 1272.0, 1273.0, 1274.0, 1275.0, 1276.0, 1277.0, 1278.0, 1279.0, 1280.0, 1281.0, 1282.0, 1283.0, 1284.0, 1285.0, 1286.0, 1287.0, 1288.0, 1289.0, 1290.0, 1291.0, 1292.0, 1293.0, 1294.0, 1295.0, 1296.0, 1297.0, 1298.0, 1299.0, 1300.0, 1301.0, 1302.0, 1303.0, 1304.0, 1305.0, 1306.0, 1307.0, 1308.0, 1309.0, 1310.0, 1311.0, 1312.0, 1313.0, 1314.0, 1315.0, 1316.0, 1317.0, 1318.0, 1319.0, 1320.0, 1321.0, 1322.0, 1323.0, 1324.0, 1325.0, 1326.0, 1327.0, 1328.0, 1329.0, 1330.0, 1331.0, 1332.0, 1333.0, 1334.0, 1335.0, 1336.0, 1337.0, 1338.0, 1339.0, 1340.0, 1341.0, 1342.0, 1343.0, 1344.0, 1345.0, 1346.0, 1347.0, 1348.0, 1349.0, 1350.0, 1351.0, 1352.0, 1353.0, 1354.0, 1355.0, 1356.0, 1357.0, 1358.0, 1359.0, 1360.0, 1361.0, 1362.0, 1363.0, 1364.0, 1365.0, 1366.0, 1367.0, 1368.0, 1369.0, 1370.0, 1371.0, 1372.0, 1373.0, 1374.0, 1375.0, 1376.0, 1377.0, 1378.0, 1379.0, 1380.0, 1381.0, 1382.0, 1383.0, 1384.0, 1385.0, 1386.0, 1387.0, 1388.0, 1389.0, 1390.0, 1391.0, 1392.0, 1393.0, 1394.0, 1395.0, 1396.0, 1397.0, 1398.0, 1399.0, 1400.0, 1401.0, 1402.0, 1403.0, 1404.0, 1405.0, 1406.0, 1407.0, 1408.0, 1409.0, 1410.0, 1411.0, 1412.0, 1413.0, 1414.0, 1415.0, 1416.0, 1417.0, 1418.0, 1419.0, 1420.0, 1421.0, 1422.0, 1423.0, 1424.0, 1425.0, 1426.0, 1427.0, 1428.0, 1429.0, 1430.0, 1431.0, 1432.0, 1433.0, 1434.0, 1435.0, 1436.0, 1437.0, 1438.0, 1439.0, 1440.0, 1441.0, 1442.0, 1443.0, 1444.0, 1445.0, 1446.0, 1447.0, 1448.0, 1449.0, 1450.0, 1451.0, 1452.0, 1453.0, 1454.0, 1455.0, 1456.0, 1457.0, 1458.0, 1459.0, 1460.0, 1461.0, 1462.0, 1463.0, 1464.0, 1465.0, 1466.0, 1467.0, 1468.0, 1469.0, 1470.0, 1471.0, 1472.0, 1473.0, 1474.0, 1475.0, 1476.0, 1477.0, 1478.0, 1479.0, 1480.0, 1481.0, 1482.0, 1483.0, 1484.0, 1485.0, 1486.0, 1487.0, 1488.0, 1489.0, 1490.0, 1491.0, 1492.0, 1493.0, 1494.0, 1495.0, 1496.0, 1497.0, 1498.0, 1499.0, 1500.0, 1501.0, 1502.0, 1503.0, 1504.0, 1505.0, 1506.0, 1507.0, 1508.0, 1509.0, 1510.0, 1511.0, 1512.0, 1513.0, 1514.0, 1515.0, 1516.0, 1517.0, 1518.0, 151

WHAT'S NEW

Contaminated sites database available on CD-ROM • Recentest-based Information Resources has developed a contaminated sites resource for companies in the business of site remediation or environmental impact assessment.

The Contaminated Sites CD-ROM developed under contract to the B.C. Environment Ministry contains B.C. legislation, policies, procedures, and forms along with government contact information and a list of frequently asked questions. An interactive spreadsheet model, which requires \$60,000, is also included.

The CD is available on a subscription basis and is updated quarterly. Cost begins at \$245.

Contact: Information Resources, 500-667-1257 or 804-731-0332
http://www.irs.ca/csi

Business optimizer: graphics for Web • NetGraphics Technology Inc. of Bull. Que. has released shipping NetGraphics Studio, a two-part application that optimizes images for use on the Internet.

The first part of the package, NetGraphics Optimizer, is a tool that takes images in a



and save transparent image characteristics.

NetGraphics Studio 2.0 has a suggested retail price of \$99.95.

Contact: NetGraphics Technology, 1c 404-733-8888
http://www.netgraphics.com

Apple upsets old Claris, cuts 300 jobs • CLUSTERSO: Cuts 300—Apple Computer

Inc. will lay off 300 workers as it spins off its Claris subsidiary and takes software sales in-house. Claris now becomes a company called iWorkmaster Inc., and is left with the iWorkmaster Pro line of database products.

The move is part of a restructuring at Apple designed to cut costs. Apple will assume all sales of its Mac OS 6.0 and 8.1 operating systems, and will support and continue to

develop ClarisWorks, its integrated word processing package. It gives iWorkmaster no further commitment from Apple at deadline, nor was there a statement from Apple's selling chief Steve Jobs.

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Steven Miller, Manager, Inc.

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- Automatic calculation of terms and discounts
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- "To-Go-Now" menu you when instant of accounting entries are due
- 17 graphs the easy data analysis
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- Automatic calculation of GST, PST and HST
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A.L.B. Features

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WHAT'S NEW

like home entertainment. Army Design's (the other label company) has launched two lines of products aimed at the home.

The Army Personal Creations include greeting card and label blanks that work with many desktop printers and allow a person to make custom-designed greeting cards, gift tags etc. One product, The White Card Nursery Pack, includes 20 cards, 34 envelopes along

with Atlassian/Greetings card-design software. It has a suggested retail price of US\$17.99, while a 15-card refill for software costs US\$20.99.

The other line of home products is called the Army Kids line aimed at 4-13 year-olds. A software application called Army Kids Frostbite allows kids to design stickers, greeting cards, awards, 37 cards etc. on per-

sonal blanks. The Frostbite software kit has a suggested retail price of US\$14.99, while a 10-sheet refill pack costs US\$8.99.

All prices listed, Canadian prices were not available, but the products should be available now at major computer retail chains —CT

Contact: Army Design Inc. Canada, Tel: 888-465-6078



Brown new enhanced CDs • Calgary-based Brown Nine Grooves is producing dance in size albums for Spring. Subsequent to a popular *Midnight Place* and *Army* CDs, 60230

with the *ARMY* CD-ROM.

MELICIOUS



CD-ROMs. The first album will be called *Melicious*, and will contain a bonus CD-ROM music video and additional goodies. The disc should be available by the time you read this.

Leave Nine Grooves develops electronics music compilations on enhanced CD This format allows music CDs to also have CD-ROM content, which can be accessed on Mac and PC computers. The company released its

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—PC Magazine, May 4, 1997

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WHAT'S NEW

video and the visual talent are primarily Alberta-based with some content from other parts of Canada. The 21st and 22nd ICNOC is available at major music stores (BMG and Mercury), and independent outlets.—*OT*

Since New Lines was established with the help of the Youth Internship Program being run at the University of Guelph campus in 1992, it has been an electronics retailer who works primarily with New Lines. Contact: Brian at 603-240-0223 or mail your letter to 888 Box 1301, Box M, Guelph, ON, N1P 3J2 to review.

Check out the Olympics on the CanadianHogues site. • The Canadian Broadcasting Corp. and the Winter Olympic Games are creating Canada's performance at this year's Winter Olympic Games on the Web. The CanadianHogues Web site has launched Feb. 6 and will operate until March 8.

Contact: CanadianHogues
800-363-6363, olympics.ca

Canadian AltaVista search engine launched. • AltaVista, one of the most popular search engines on the Internet, is now available in a special version focusing on Canada-specific content.

Called AltaVista Canada, the search engine has the features of the regular



AltaVista, but also includes more than 18 million pages of Canadian Web content in its index, according to the developers.

The 340-million of links, AltaVista's engine, AI, glosses center, Digital Equipment Corp. developer of the AltaVista search engine and Information-based technology jointly developed the product.—*OT*

Contact: AltaVista Canada
<http://www.altavista.ca>

Pen computing goes ballistic. • Fujitsu Personal System's Stylus pen tablet PC became the first mobile computer ever used in a mobile data link during the Columbia Space Shuttle launch Nov. 19, 1997.

The Stylus was used by astronauts to access real-time alternate landing data during liftoff. The Pen interface proved easier to use than a traditional keyboard by astronauts

wearing space suit gloves. During the flight, a cosmonaut kept a Stylus strapped to his thigh for easy access to Worldmap, a Windows-based application that allowed the astronaut to visualize the shuttle's location and orientation and identify a predicted reentry point.

According to Gerald Muller, vice president of marketing for Fujitsu Personal Systems

"Drive again, tablet PCs are being used in a working environment that requires on-the-spot information. The innovative Stylus pen tablet over the computer needs to work in dynamic situations where laptops are cumbersome and inoperable."

In particular, NASA is looking at mobile PCs to give space crews access to critical data in real time and to enable graphic display

tools so more decisions can be made by the crew's server than ground control.—*OT*

Contact: Fujitsu, Tel. 800-857-5755
<http://www.fps.fujitsu.com>

What's new to write and compiled by Jeff Evans, Keith Scheraga, Andrew, David, Toronto and Wayne Johnston

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Comdex starts '98 season with PacRim

BY ROD LAMIRAND



Visitors played host to the computer industry for three, six-to-eight days like last January. Comdex Pacific brought 30,000 thousand buyers, sellers, information technology managers, press members, and the lucky, to over 200 exhibitors in its annual event and gave party lovers the rule of the Vancouver Trade and Convention Centre.



A much smaller venue than last year's Canada Canada (and only about one-third the size of the American counterpart event that brought 350,000 attendees to Las Vegas for three days in November), Pacific showed some signs of a more content. And, yes, notable shows were held, the usual demo and deal, offering and dealing, and all sound, co-sponsoring made for a real-time line.

Comdex has grown in the last four years from six months to five countries to 45 events in 20 countries. The newly renewed network of conferences and forums is called "2000 Canada & Beyond" after the 2000 Expo with which the original Softbank company has joined.

On the floor considerable changes could be seen. The Internet was no longer the belle of the ball as last year's show. As it was, it was mostly a place to visit without buying, a place devoted to ISPs, Web hosting in Internet TV services.

Take your empty-handed to show a week in their booth. Exhibitors selling a thing remotely contacted to the computer, mobile, graphics and sound and, perhaps or possibly any other thing, had a DVD player in their booth. Most had a DVD player in their booth.

What was hot, and cool

Apple showed a 17-inch screen on its 42-inch flat screen monitor. The 517 580 View was among the best of the show.

Creative Labs was handing out great paper bags advertising its DVD-ROM product. The show was packed and the show looked like a wildcat. Creative Labs advertisement. One of TLP's other public

items, Canadian Computer Magazine, revealed the Event product an innovation '98 Award for the best of the show.



The highest priced, floor-to-ceiling was owned by Microsoft which showed Windows 98 among other things.

Digital had a lot of space with machines in their own of Digital Systems. Naturally, Spelling was on display for the Alpha version of the software of the 24. That's what a 100 MHz machine will do when it has 16 MB of RAM.

The KC 100, known, surprisingly, as BC 101 was showing people's skills on with its 100% service (which also was an Internet '98 Award). When a 3.5 MB file downloaded in 14 seconds the attention of the show.

Comdex South goes to The Media. A Web information/multimedia marketing company with a great sense of the audience.

Exhibitors showed a video of a woman lying on her back. The Toshiba computer went in the front, drove a flag of major state and even ended up under a car without breaking.

The 14-120 drive and disk combi from Invention Canada was being pushed at the Super Disk. Microsoft's drive at last, copy to your hard drive. The 14-120 drive would be out this summer.

Some good 100% Comdex and others in showing off a new, new digital camera.



last. Epson supplied the Epson 800 high-resolution digital camera with which we took some of the photos for this article. Digital camera and don't of laptop printers found the same. Some companies such as Canon, Epson, Sharp, Sony, and others.

Synaptic was showing off its new Synaptic, which is close to what we really want. Some companies to exactly the state it was before you installed a new program, home. Watch for the video.

Words from the top

The show had four keynote speakers over the three days. Don Cullen, chief executive officer of BC 101, spoke about the show. Don Cullen, your president of Hewlett-Packard called on his company's vision of the future and Novell's place in it. Don Cullen, director of research for Microsoft, pointed to his efforts to bring the computer user more preference in the desktop. Paul Flaherty, chief

architect for DEC's Alta Vista search engine, looked at the impact that access to massive amounts of current information will have on individuals, jobs and businesses.

At the Microsoft speech the company gave out Money 98 Financial Suite, the full build product. After 400 hours they can tell their users' confidence. Budgets and growth to test the product to the money 98 2000 standard.

The ubiquitous Steve Jobs closed a three-hour talk covered topics related to the



Mac when he went to a photo for the Computer Press. It's a hard work and it's a hard work for the people with such kind words about the industry.

The most interesting title from the show was a product called Applied 02 from Government Canada. It's a 100% IBM and it allows you to call a toll-free number to get your own or home office. A little less concern to this cable. You buy a second mouse keyboard and mouse and plug them in. Now, you can have two people typing, reading, copying, writing at one time and you don't even buy a second computer.

Said too good to be true? Well, as you know it's a future issue, because this is definitely one product we want to get through a full hands-on review.

The shape shifter

For all the glitz and glam, there were signs that the show is in transition. Although the attendees' floor space and exhibitors' booths were roughly in expected levels, according to Bob Branson, general manager of Creative Events for 2000 Canada and Beyond, they were more than just a sign.

I did notice a little less cash than in past years. I also saw a lot of empty booths and the absence of IBM, Apple, Microsoft, and 801 (although Compaq was there) in name. A few Branson said some booths might be empty due to mergers or acquisitions or other unknowns. It takes if the empty spots had been paid for but he didn't know the answer to that question.

The general agreement on the floor was that the growth that has made it a year big but that the last may have come to an end. It is not that if the industry is looking at the end of the world to say it is in a state of questioning the goals achieved at these conferences because the show is being reformed in its original spirit—business and business people.

Though it is unclear whether the International Canada Expo will continue it is a company that not only people will want to compare with more money. Larger machines with higher resolution and interactive with more data. As long as the technology used to get the data and production through delivery channels and out to consumers there will be a need to bring the same players together.

You can bet that whenever and wherever that is, there will be a trade show and it will probably be called Canada. Canada Canada '98 (year July 9-13 in Toronto). Comdex Quebec '98 will be in Montreal Oct 31-29. Next year Pacific will be in Vancouver Canada Canada '98 '98.

Winner!

David Boulanger is the winner of the Kodak Digital Science DC210 digital camera

David Boulanger's Kodak/PacRim trade show in January, Canada Computer Paper Inc. invited winners of our four publications (The Computer Press, Computer Paper, Canadian Computer Magazine, and Government Computing) to tell us what they thought about our publications.



Readers were invited to complete a survey and the completed forms were placed into a hat. Mr. Boulanger's name was drawn from the approximately 1,300 reader survey forms that were completed during the show.

Mr. Boulanger is a client services technician with the District of North Vancouver. He says he fully just completed a course in desktop publishing, so the camera will be a real nice addition to his studio.

To everyone who took the time to fill out the survey, our thanks. We'll be using the information to make sure we continue to give you what you want to read.

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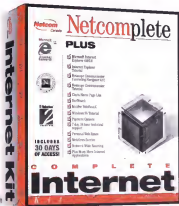
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THE ABCs OF DVD

DVD: oh what a feeling

DVD is set to blow your socks off! And 1998 will be the year that DVD exploded, took off, and took over. Long promised, much fought over and very cool, DVD is finally, really here. Whether you are a computer aficionado or a home theatre guru DVD is in your future. You can run but you can't hide—DVD is about to become *de facto*.

BY ROD LAMIRAND

DVD players have really amazing features. In fact, the problems all the features of a VCR, such as stop, play, pause, fast forward and rewind. If the DVD drive you are viewing supports extra features you can also:

- have captioning in other languages,
 - listen to the sound track in other languages,
 - listen to a voice over,
 - choose different camera angles,
 - jump to any point in the film,
 - have audio segments of interest,
 - adjust video brightness and other video attributes,
 - and even watch the film in letter box mode if it is wider than the screen it sits on.
- The DVD player can do all these things because the specifications allow it. The point here is you must have a DVD title that takes advantage of these abilities.

The experience:

there's nothing like it

Stick it in and sit in the seat—your first look like the camera. As the sound begins to grow as the visual elements roll across the screen.

Perhaps you have been to a movie recently

and it began with a download that of a movie trailer. And the camera pans down the big list of names that lists everyone: the sound comes from upper left to bottom right and the screen goes into the DOLBY DIGITAL mode. DVD that's what happens on your computer too.

It's one of those moments. The drool factor is off the register!

Then the credits start to fall in and the film starts—and unlike anything you have ever seen on a computer before—you have a complete and smooth high-quality movie. It's one of those moments. The drool factor is all the again.

So you can watch a movie on your PC. So what? This aspect of the technology isn't very practical. We need a 17 inch monitor and there's spoken for, and although it was expensive by any standards, you couldn't get the whole family around it. So how do you pull it getting a DVD drive?

The justification:

What makes DVD such a formidable technology? Well it is not just for immediate access,

Incidentally DVD used to stand for digital video disc, which makes sense when you think of it as the replacement for laserdisc or videodiscs. However, with new uses for the technology the "video" makes less sense as the new spin is that DVD stands for digital versatile disc. Some say it should stand for nothing at all—just DVD.

When you watch a movie on your PC you are really doing a DVD from the living room. You're watching a movie and bringing it into your den or living room.

If the only purpose of having a CD-ROM was to listen to CDs while you worked at your computer you can be previous but computers would have lost it. It is practically every computer sold today has a CD-ROM because it is useful to computing.

In the same way DVD is as well seen for useful to computing. Think about it. Already Microsoft's Encarta encyclopedia, which came on two CD-ROMs, containing 20 to 30 million words and hundreds of sound files, is available on a single DVD disc (which also contains the famous Virtual Globe and Microsoft's Encarta reference library). And that disc contains 20 pictures, three movies and tens of thousands of 30-second movies. Thousands of sound files, three many hard songs are there anyway! And it's in the disc and it's in the box. What about a DVD disc with 24-bit



epochs of *Star Wars*? Heck without the compression you could probably get 18 full hour discs out of one.

VCRs & new thing: games are another look. In example at the new DVD file being Community TV by Electronic Arts. The game starts out with a short movie starring Matt Damon and Matt Damon.

During the high-quality movie you get to make some choices. The movie stops and you decide should I help this guy out or should I just ignore him. That decision and others will come back to help or hurt you while you are playing the game.

It is able to offer broadcast full screen video producers need huge volumes of space. Fortunately a DVD disc can have as much as 26 gigabytes of storage space of a standard 4.7 MB CD-ROM. DVD isn't a real hard drive, but it will be soon. ☐

Adding DVD to your computer

We test two DVD-ROM upgrade kits

BY ROD LAMIRAND

On behalf of our readers we contacted manufacturers of PC DVD-ROM upgrade kits.

Thomson Multimedia Systems Inc. of San Jose, Calif. did not have a Generation 2 DVD device ready for test but we were and did not have any Generation 1 device left to evaluate.

The new Generation 1 refers to the first generation device that came out in 1997. Generation 2 refers to improved DVD-ROM drives that have been allowing some Windows and Windows 95 CD-ROMs and CD-ROMs—something that Generation 1 drives could not do.

Dynamic Automation Systems of Bedford, Mass. was not one of its competitors to DVD even though its DVD-4070 upgrade kit seemed very recent. The company declined to send us a review unit. TechnoData Computers

Systems of Garden Grove, Calif. was also reluctant to send us its DVD-ROM drive until a new generation could be offered. Company representatives said they would try but didn't send a unit. UltraStar Corp. also of California said it would send its UltraStar Hollywood DVD-MPEG 2 A/C1 Playback Kit, which is a first generation device but it was allowed.

The kit two units that did arrive Pacific Digital's DVD-ROM kit and Creative Labs' DVD-ROM drive, both new generation, high quality DVD-ROM upgrade kits.

These DVD-ROM kits will upgrade a CD-ROM computer into a DVD player. They take somewhat different approaches, but in the end you get the same components and have similar results.

Soft DVD

A collaboration between Creative, ATI, Intel and Texas Instruments has produced a software product that, under certain conditions, can

decode and play back DVD-MPEG 2 data. At the same time Apple has announced software support for DVD in its next release of OS X. The Macintosh operating system. Apple says for the product to be slightly less than what is achieved through hardware and there would ultimately be considerable addition of the company's resources. However, the development could make a powerful computer will have DVD ability without added hardware and expense.

The components

A DVD-ROM upgrade kit has two main components: a PC card and a DVD drive. The card inserts into a PCI slot on the PC board while the drive is an external unit.

The drive has the same look and often sits as a regular CD-ROM drive. One of the few differences is that CD drives don't usually have the following writing, written in 24-bit graphics on three "flaming white and im-

like laser radiation when open. Do not stare into beam." Others drive included any drivers and cables, plugs and more.

The installation

Each kit claim installation is easy but it is not so. Put in this way if you can't install a CD-ROM drive and a second unit you might lose a lot of sleep installing one of these babies.

Here is how I try to help you. The drive has a standard power connection which you probably already have hanging around inside your machine. It isn't so bad, but you'll get a 4-pin or a 5-pin connector. Like on your CD-ROM drive there is a thin audio cable that connects to the DVD card. Lastly, there is an IDE ribbon that runs to your motherboard. This may be the Primary IDE controller ribbon or Secondary IDE controller ribbon. In the last case you

Continued on page 24

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THE ABCs OF DVD

Adding DVD to your computer

Continued from page 24

It's not experience, a difference in quality between the two set boxes is not discernable. Although this would seem to suggest the Pacific Digital model is at a disadvantage, that is not the case because the Creative Life board has an internal video compression that can be used to make it perform in an overlay mode, with virtually zero graphic alterations.

The DVD player is congested, too, as both systems, after attached to the parental

control level of "kids." This meant that we would lose a DVD title that was rated as adult and the movie wouldn't play. The answer for the players was quite good and allowed extensive customization.

Overall, the Pacific Digital was easier to install for hands-on fine tune than the former. The DVD-ROM drive came with a rather strong collection of movie titles including *Grease—The People's Choice* and *Deadly Encounters: Killing Lenny Hagman*. The game approach however really takes advantage of DVD's capabilities.

The drive also has a DVD-R plug and both composite and S-video out. Pacific Digital has more by far to prove to compete with Creative Life and thus has brought built-in test calibration as a recommended product.

The best choice

With only two drives available for evaluation it is difficult to decide whether overlay or delay is the best choice for DVD. As well, the two kits were comparable in almost every way.

We did have a small problem with the Pacific Digital kit. In both computer systems it

would not read the video from *Grease* and *Killing Lenny Hagman*. If you use the Creative Life drive would. We were unable to verify this problem, although Pacific Digital's tech support had not this to be so for drive without difficulty.

Either of these drives is a much better choice than the Generation 1 drive that are still out there and run slower. For its good player, great in its own right, requires more recommendation goes to Creative Life. Encore: Look for a flurry of new Generation 2 DVD features in the next few months. Q.



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	1999	2000	2001
U.S. population, 18 years and over	207,000,000	208,000,000	209,000,000
U.S. population, 18 years and over, non-Hispanic	180,000,000	181,000,000	182,000,000
U.S. population, 18 years and over, Hispanic	27,000,000	27,000,000	27,000,000

Abstract

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1996-97	1996-97	1996-97	1996-97	1996-97
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2005-06	2005-06	2005-06	2005-06	2005-06
2006-07	2006-07	2006-07	2006-07	2006-07
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THE ABCs OF DVD

How we got from CD to DVD

BY BOB SAMIRANO

When the compact disc stills ticked audio content tapes out of record stores, it was only doing what tapes had done to vinyl: LPs and good old eight-track tapes. CDs were a big improvement with more than 70 minutes of quality audio. Yetters for computer industry got tired of swapping 1.44 MB floppies. It only seemed natural to look to the technology of the CD.

How it works

CDs work by burning little holes in a layer of material below a transparent protective outer coating. These little holes are called pits, while the spaces between them are called lands. The pits and lands are arranged, using a path that spirals around the CD in one long continuous line.

A laser shines a light along the path and reflect the reflected light. When there is a pit, no light is reflected. This represents data digitally in just that same way a magnetic record represents a 1 or 0 on a magnetic storage device like your hard drive.

The better DVD store about the digital video, after how many times they're digitized, available day or for nothing at all—depending on who you talk to.

A DVD disc works in a very similar way but with a few improvements. First, the pits and lands are much smaller and closer together.

So this means you must have a more accurate and sensitive device to read these discs—in other words you need a DVD player. It also means you can place 4,700 bits (4.7 GB) of data where 150 MB once reigned.

Surprisingly, DVD discs can have two layers of data, one below the top layer, which is more transparent. By adding this layer, and the laser that reads it, the DVD drive can read either the top or bottom layer without any loss. This means you can get 9.8 GB of data on one disc. That's approximately two hours of video.

There's more: remember DVD discs can be two-sided. The result—11 GB of data on one CD-R disc. That's eight hours of video or 1,100 minutes (18 hours) of audio.

Thirdly, unlike CDs, DVDs need to be able to jump from one player to the other to another. Thus, they are regionally identified and use a system that compares both content and regional information. This two-track region system allows the publisher of a disc to control commands and ensure within a track, better to prevent to control video and data control. This is what makes it possible to have user input and external hard drive in DVD players.

The new genre

Just as we have CD players which play CDs, we also have DVD players which play DVDs. In our product line, DVD players are called motion picture players that would receive

ally replace the VCR as last disc still is a home entertainment setup.

Since the VCR and the laser disc players can compare with the DVD players in video and audio quality or for the amount of information that can be stored. While the LD has two hours of video on one side, the DVD can have less—and the discs themselves are half the size. As well, CD players have only two digital audio channels. DVD can have up to eight. (Compare with an investment in 5.1s can also have them on DVD players that will read LDs.)

When we use a CD to hold data for a computer, we call it a CD-ROM compact disc read-only memory, and call the player a CD-ROM drive. Similarly, when we use a DVD disc to hold computer data, we call it a DVD-ROM and the player a DVD-ROM drive. This concludes

but is not as universally agreed upon nor properly logical but the fact that there is a bit here.

Standards and industry facilities

The DVD standard has been agreed to and has been clearly indicating the standards, since we'll expect them for about a year. However, there are a few areas where no consensus has been reached.

One is the area of DVD audio. DVD can and probably will support CDs as the preferred medium for the encoding and distribution of music. It won't happen quickly but it will happen. The reason is that, whether the music industry plays on the hard-disk or not, the number of DVD players and DVD-

Continued on page 32

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THE ABCs OF DVD

How we got from CD to DVD

Continued from page 29

ROM drives that will pour into the market will make this exact. Once a huge number of people can play a DVD audio disc, the music industry will have no option but to opt to sell it as a product that DVDs could stay out of the music field for some time.

Another lack of consensus is found when we look at recordable DVD drives. Is the "D",

movie studios were very worried VCRs would make their revenue by allowing the public to copy movies. In some ways it has but the cost just isn't low enough. The development of new VCRs which make copying really isn't all that hard, has limited the efforts of this practice.

Software companies have been equally worried about the massive financial investment CD-ROM drives that are now available. CD-R (CD-ROM Writable) would allow some to copy

games and programs. Even worse, CD-RW (Re-Writable) would allow users to copy one CD and then later rewrite on the same disc. This has largely not come to pass because of the cost of such drives, the cost of these types of discs and, the acceptance of different standards that have developed due to size data used.

A similar standard battle is being fought in the world of DVD. As we said above, the DVD

standard has been agreed upon. However, the next generation of devices are available DVD-R, D, devices that give the ability to record data on blank DVD drives. There are a number of groups that are vying for ownership of the standard in order to set new future drives.

DVD-R (Recordable) is a standard that was finalized in September by a group known as the DVD Forum. Initially it is the new name of the DVD Consortium that created format DVD standards. This body had expected DVD development to follow that of CD-ROM. Thus, there was to be a period of time where DVD-R was introduced followed by a re-writable standard known as CD-RW. Various server memory have issues as well. However, some developers want to skip the whole re-writable step and are concentrating on CD-RAM.

Meanwhile a splinter group comprising Sony, HP, Philips, Mitsubishi, Sanyo and Bush has introduced another DVD standard called DVD-RW that is re-writable and offers a GB of storage as compared with 2-4 GB for CD-RAM (writable and re-writable DVD discs are single layer and extremely different than factory-manufactured products, limiting the data).

Finally, NEC is suggesting another DVD solution that has Sony's, is also incompatible with the DVD Forum's.

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What's to watch: DVD titles

It is estimated that there are over 4,000 DVD movies currently available. This may be true, but from our limited research many of these discs are little more than a plain copy of the original movie. A lot to worry about indeed. Color and other features are not being captured, even when the capturing is two or three layers that is possible with DVD technology. As well, most of the titles did not have more than the cut soundtrack.

The ideal and other new releases have English, French, and other languages—even a director's voice over. But additional content angles are not clearly it would not be easy to get additional content angles for an DVD movie movie made in 1962, but for newer movies it would be fairly simple and wide users is often not supported in these titles.

Consumers are unlikely to pay the \$25 to \$30 per movie currently being asked for movies, unless the extra capabilities of DVD are utilized.

The Japanese are not used to DVDs was at a time where the (Director's Cut of Blue Velvet cost \$11.95. Other titles like Austin Powers and The Jack were priced in the range of \$29.95.

Customers are slow moving for DVD-RAM but it is a little faster than movies because there are fewer DVD-RAM drives than players. If the PC is not going to match dedicated machines like Nintendo in equipment, DVD-RAM is the way they will do it.

Educational and reference software companies on the other hand, are really taking more in the DVD arena. There are dozens and dozens of DVD-ROM titles expected this spring—first access to medical programs, and computer-based training in hypodermics—Ed Landrum



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As the work proceeded on the movie, I kept several backups of the film, including copies sent nightly into removable ZipQuads via serial settings. In case of fire on disk, I used the Layers feature of Photoshop to assemble layers with shadows and border elements that could easily be altered to give the client's requests. For the Celtic knot border, I used a Photoshop 4-style collection from Allen Kim called Eye Candy to give it the look of hand-drawn. Along with this, I imported a "starburst" pattern from a lovely collection of marble textures on CD-ROM called Marble Paper Images from Artwork.

I should also mention that I worked exclusively in CMYK mode to avoid any possible unpleasant surprises that (color) occur when an RGB image is converted to CMYK color. As many of the elements of this cover were hand-colored (primarily using Photoshop's Vectorware command upon carefully studied references), this was especially important, as was the need to carefully calibrate my monitor for accurate colors, and save the settings using Photoshop's Monitor Setup dialog.

To develop the "dramatic" quality of the scene, I did many sets of various effects using a variety of 2D and 3D tools. I eventually settled on the idea of using MicroSystems' Bryce to render a scene in which, besides a dramatic sunset, a ship was reflected in a pool of water. Rather than cover the hard times search, I searched the Internet and found a busy image in one of the many collections of DDF files on the Web. As I knew that the DDF ship would be replaced in the final scene by a photo of a real ship, I was using it only to generate shadows and reflections on the 3D water.

I performed some small test renderings and, when I was satisfied with the look, I rendered a scene at a resolution that would be appropriate for a CD cover (roughly 5 inches square). Considering the 100-lpi dot screen my press person said would be appropriate for the glossy paper we were eventually going to print on, this worked out to a 300-lpi rendering using the following formula:

For color work, the designer took renderings of your master images (such as the one seen that times the number of lines per inch of your output device's halftone dot screen).

In other words, a 300 dpi scan is perfect for 150-lpi output. Scanning at higher resolution is sometimes useful to reduce stored patterns and address other issues, but such super-sampled images should be reduced to fit this equation before printing. More resolution in the output file just wastes hard disk space and slows printing.

Once rendered, I used Photoshop's Rubber Stamp tool to move the busy dots (the scene looking only its reflection in the water). I then dropped the photo of the real ship, cut out using Photoshop's color range selection tools, to its place. If I had known about it, I'd have used the excellent Chromatics plug-in from Chroma Graphics Inc. (Tel. 408-375-1130) to further ease this masking and selection process. Even without Chromatics, however, the end product looked quite interesting after a little retouching.

The rendered scene was then composited with the starburst images and the various elements were colored and rendered to final accuracy.

Once all the Photoshop work was done, I saved the file in CMYK TIFF format for output

and saved a copy one last time in Photoshop Document (PSD) format. Saving a Photoshop format version of the file is important, as TIFF, EPS or JPEG files do not save the layers and contain other attributes of the original file. Thus, if I ever want to rework the file (for example, to create a camera jacket or DVD cover) having access to the individual layers, paths and saved selections may prove handy. I also printed a color "proof of concept" sheet

on a dye-sublimation printer, set up the image and loaded it into a proof color presentation to the client. When deadlines are close, such details can save time.

Because I'd like to be remembered as the Backup King, I also converted the file to JPEG format and saved a copy in that compact file into a floppy disk, too. Unbelievably, my 74 MB Photoshop version of the scene, when saved in a high-quality JPEG file on a 100

gig 1.44 MB floppy disk!

Finished with Photoshop, I set to work assembling the images in PageMaker. I found that PageMaker's on-screen display of the CMYK TIFF images to be accurate—even after all day careful calibration. I had such trouble on-screen accuracy by ensuring to Photoshop and re-saving the file as CMYK 8-bit (unquantized) PostScript 5/6m.

Continued on page 44



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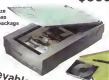


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FISTFUL OF GRAPHICS

Graphics tools for Web page design

Continued from page 41

PaintShop Pro

Platform: Windows 95/NT 4.0 or later
System requirements: 4MB or greater processor
\$195 (MSRP) \$149 (Amazon) but don't open
its chest just yet

If you really, really want to make graphics for the Internet but really really don't want to shell out the top bucks for Photoshop there are a few alternatives. You'll discover them online when software makers, at places like download.com or you'll learn about them in magazines like this one. And if you try them you'll find that some are better than others and you might discover a new path to the Photoshop location who doesn't as good, but who do what they do very well.

Just to follow a PaintShop Pro is the first of a long list. It merits all the accolades. It allows you to manipulate and convert photographs and others as well as digital Web images. It is a complete tool so that first you manipulate and retouch photos, enhance and alter images and has a full set of font filters.

While PaintShop Pro lacks some of the longest features that make Photoshop Photoshop, it compensates with strengths in other areas—PaintShop Pro is very inexpensive and since it's a less sophisticated program the learning curve is less steep.

The bad news is that there is no Mac version, so if there likely to be for Macintosh some time out in the near

PageCharmer 1.4

Platform: Microsoft Windows 95 (Macintosh, but system requirements to maximum configuration required) but from Internet PageCharm 1.4 is also a Microsoft Internet Explorer 1.4 is also
\$149 (Amazon) but don't open
its chest just yet



Just for example, may as looking your browser
for 50-100 percent of the software to

involving a lot of time learning how and then in programming it on your site is probably not a good idea. On the other hand, there are a lot of simple and elegant little things that can be done economically and easily with Java-style technology.

Amazon's PageCharmer is a good compromise. When you get started, it's a lot full of customizable Java applets. You can add things to your Web page like graphics and can manipulate everything online. It's because this there are several reasons everyone keeps recommending about, the image maps and more.

Though there are a number of similar applications floating around out there, PageCharmer comes out on top for a couple of reasons. It's easy to learn, and it makes creating and installing Java applets practically play and play.

Dithology 1.0

Platform: Microsoft Windows 95/NT
System requirements: A few applications that offer full support of Photoshop plug-in extensions.
\$149 (Amazon) but don't open
its chest just yet

From the exceedingly useful little tools department comes Dithology. If you're making graphics for a Web site, you'll know that dithering is a bad thing. It can be when applied to the

graphics you're doing on your own.

The color palette Web page is color palette just 256 colors. That is, there are only 256 colors that can be safely stored in a Web browser on both a PC and a Macintosh. While that sounds like a lot, when you consider that a design-ready computer can show you millions of colors, it's not so much of a bad thing.

When you design a Web-based graphic,

in a color is color that are outside of the browser range, the dithering colors will be dithered into the limited range of the palette. While this is actually a Good Thing, sometimes the dithering colors you wanted end up looking more.

Dithology, a handy plug-in that you use through Photoshop is another graphics program that often tells Photoshop plug-in compatibility. Dithology actually

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FISTFUL OF GRAPHICS

imbeds the cross-platform palette by displaying the available colors into a palette that is easy to view. The splash is (finally) makes your entire look after the user you specified in the first place.

WebPalmer

Platform: Macintosh Windows 95/NT
System requirements: Macintosh: Power Macintosh or 68000 processor Mac OS 7.0 or later 8 MB RAM

2 MB of hard disk space (minimum 40MB)
Price: \$1000 CD-ROM drive
System requirements: Windows: 486 25MHz processor Windows 95 or 97 10MB 50MB 1 GB of hard disk space (minimum installation) CD-ROM drive VGA monitor
Web: <http://www.webpalmer.com>

One of the very cool things about the GEMINI format is that it allows the display of multiple

layer images. Read navigation. And while animation on a Web site can be a big hit, displaying data in this way can also be very cool. WebPalmer is one of the applications currently on the market that specializes in just that.

The name is slightly misleading. It's not a paint program. It's completely dedicated to creating GEMINI animations. However, that's the only thing about the program that's a little

tricky. WebPalmer's interface is advertised (you can create Web animations from clip art or from scratch in a very little time). The interface is designed to make the job easy to use and the manual is comprehensive. Another nice expert WebPalmer is made in Vancouver making this an entirely Canadian product.

GetPalmer

<http://www.webpalmer.com>



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There may be lots of stuff around to help you make good Web projects, but there is at almost equal number of cool online resources to help do this job—to help do it better. One of them is GEMINI.

GEMINI is not a standard page layout in a Web. WebPalmer is a standard page layout in a Web.

There it works in two ways: the GEMINI are used plug in the Web site for you with or make smaller. GEMINI will travel along and check it out and (because it's a Web site) different versions of your Web site all smaller than the one you started out with. It's a very cool tool.

Goodbye Web—It's here!

Deliberator

Platform: Macintosh Windows 95/NT
System requirements: PC: 486 or greater processor 16MB RAM 20X CD-ROM drive (optional) 10MB of hard disk space (for installation) 20MB of hard disk space (for operation)
System requirements: Macintosh: 68000 or greater processor in Power Mac Mac OS 7.0 or later 10MB RAM 20MB hard disk space
Web: <http://www.deliberator.com>



Deliberator puts various pages into your hands.

For many designers, the name Deliberator is synonymous with a good Web graphics. It's not pretty because when the Web happened, Deliberator was probably the only game in town. As the Web has changed, however, so has Deliberator. The latest version of the software has added features that make it a good Web graphics. It's in addition to connecting graphics server systems will do large batches of jobs.

Deliberator makes making the very top look like your image coordinator. Making more 100 file formats that include all the popular Web formats as well as the up and coming file PNG.

One of the most Deliberator for designers of Web graphics is Deliberator's ability to create custom pointers—the 256-color color palette Web graphics is a good starting point—so you can automatically remove page images in the design page. A.

Deliberator, and look like Graphics for Deliberator, was recently published by US Books. It is currently at work on the Visual Designer Suite in Deliberator's Pocket Press. Deliberator is the author of Smart Notebook (Macintosh 4.0 (Mac Press)) and the Deliberator Suite is (only for Deliberator). We can be reached at deliberator@deliberator.com

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FISTFUL OF GRAPHICS

Graphics tools offer more bang

(Continued from page E3)

for 30-sec, 400x1200 dpi scans with a bit rate of 500.

Scanners are largely being replaced as a means of creating a digital photo archive or for scanning documents. If disk space is at a premium—databases take up as much space as a premium VCR—then consider a document scanner or a photo scanner.

Document scanners can deal with anything up to about 8.5 inches wide. Anything that is that can fit into the slot (if it's a book cover, forget it). Most photo scanners work on light wire principle, except they have a camera aperture for focusing on pictures. Although the scanner itself has to be more precise for pixel-to-pixel accuracy and it does the most detailed color scan (usually in more modes and software), it might be better in the long

run to just close your eyes off your desk.

Digital cameras

So many digital cameras have sprung up in the last year it is impossible to keep track of them all. Prices vary widely, but there's a lot available in the under \$500 range.

The smallest resolution on these models still isn't quite up to par with film ones. I R24709 is a daily hallway in Home, but

there are more than adequate for Web pages and on-screen work, or printing. You can get away with pixel at lower resolutions if the image is small enough. If you don't mind a certain lack of detail.

(The last clarifying the graphics look in this month's cover was taken with a Kodak DC 240 "megapixel" camera. The picture below the first one was not so close to the best as a straight photographic image so effects were added to give it a more pleasing appearance. It was generally improved with some fading, but still looks like a poor picture. However, if you're looking at your publications, you won't want to give up your traditional photographic look just yet. —JL)

The digital camera market can be clearly divided in two groups: similar to "film" cameras. Some cameras emphasize portability and shoot simplicity with automatic focus and automatic exposure, but the more interesting activity is with the cameras that incorporate more traditional features such as optical zoom, additional lenses, tripod mounts and manual features. Some even go a step beyond and incorporate zooming, focus and video functions.

Perhaps the most interesting thing about digital cameras is the lack of standards. Unlike traditional cameras, where you only have to get the size of the film strip, digital cameras store images in a variety of formats on a variety of media. Some cameras use TIFFs, while others use JPEGs. Some use RAW files, while others use compressed files. Formats are transferred to the computer by means of a special parallel PC card, USB or serial interface. In fact, the connection—depending on the camera, and what you computer is equipped with. The most common camera of the last year is the Sony Digital Mavica, models, which shoot JPEG

images on PC-format 3.5-inch floppy disks, an unfortunately the camera only support a resolution of 400x400. The maximum for pixel images.

Frame grabbers

When the image frame grabbers appeared five years ago, it was a small market that a VCR format could be plugged into any PC's parallel port and had easy to use software for grabbing images from VCRs, video cameras or any other composite video source. The price has since plummeted from \$400 to about \$100, and other products have appeared on the scene to duplicate on the market the Sanyo product up.

Many of these devices sport very basic interfaces and can acquire images at up to 1,000x200 lines or less. In 24-bit color. Some even go to pick and choose based on what features you need: S-Video input and output, video capture, or motion images, or audio.

Just do it

It's tempting to wait for the new device that is just around the corner, the one that promises to acquire live video and audio while leaving your editor. The truth is there's always something right around the corner. Figure out what you need and get it. By the time you're waiting it a new generation of equipment will be there to enjoy. □

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WINTER

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Year	Number of cases	Rate per 100,000
1990	1,000	1.0
1991	1,100	1.1
1992	1,200	1.2
1993	1,300	1.3
1994	1,400	1.4
1995	1,500	1.5
1996	1,600	1.6
1997	1,700	1.7
1998	1,800	1.8
1999	1,900	1.9
2000	2,000	2.0
2001	2,100	2.1
2002	2,200	2.2
2003	2,300	2.3
2004	2,400	2.4
2005	2,500	2.5
2006	2,600	2.6
2007	2,700	2.7
2008	2,800	2.8
2009	2,900	2.9
2010	3,000	3.0
2011	3,100	3.1
2012	3,200	3.2
2013	3,300	3.3
2014	3,400	3.4
2015	3,500	3.5
2016	3,600	3.6
2017	3,700	3.7
2018	3,800	3.8
2019	3,900	3.9
2020	4,000	4.0

ACE-DAVIDE S-S DAVIDE BACHLER ART TONDI	0269
ACE-DAVIDE S-S DAVIDE TARDI DANI ART	0268
COMOLINI STEF-DANIELE TONI	0270
COMOLINI STEFANO AND GIOVANNI	0267

[illegible]

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Ungvár 1889 s. 489n., Magyar Rapszód
Magd. Dvsn. L. 1890n.

CLARKSON PERFORMS FOR THE FIRST TIME	10,000	WYNNER'S REPORT SINGS FIRST	10,000
Performs for 1000 kids in a big hall (first time)		Report sings first, 1000 kids in a big hall (first time)	
10 - 100 years, the 100 years, 1000 kids in a big hall		10 - 100 years, the 100 years, 1000 kids in a big hall	
THE PERFORMERS GO TO THE TOP	10,000		
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HP DeskJet 500XL	\$279
HP DeskJet 500XL	\$299
HP DeskJet 500XL	\$319
HP DeskJet 500XL	\$339
HP DeskJet 500XL	\$359
HP DeskJet 500XL	\$379
HP DeskJet 500XL	\$399
HP DeskJet 500XL	\$419
HP DeskJet 500XL	\$439
HP DeskJet 500XL	\$459
HP DeskJet 500XL	\$479
HP DeskJet 500XL	\$499
HP DeskJet 500XL	\$519
HP DeskJet 500XL	\$539
HP DeskJet 500XL	\$559
HP DeskJet 500XL	\$579
HP DeskJet 500XL	\$599
HP DeskJet 500XL	\$619
HP DeskJet 500XL	\$639
HP DeskJet 500XL	\$659
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HP LaserJet 500XL	\$239
HP LaserJet 500XL	\$259
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HP Fax Modem	\$199
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HP Monitor	\$149
HP Monitor	\$179
HP Monitor	\$199
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HP Mainboard	\$219
HP Mainboard	\$239
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HP SCSI	\$149
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TP 360TD	166MMX	16 MB	3.0G	20X	12.1" TFT	\$3,999
TP 360E	150MMX	16 MB	2.1G	N/A	12.1" DSTN	\$2,499
TP 750D	166MMX	32 MB	2.1G	N/A	12.1" TFT	\$4,599
TP 770	200MMX	32 MB	3.2G	N/A	13.3" TFT	\$6,299
TP 770	233MMX	32 MB	4.0G	N/A	13.1" TFT	\$7,499

Model	CPU	Memory	EDO	CDROM	Display	PRICE
480C04	100MMX	16MB	1.5GB	10X	12.1" TFT	\$2,399
480C07	100MMX	16MB	1.5GB	10X	12.1" TFT	\$2,799
480C08	166MMX	32MB	2.0GB	10X	12.1" TFT	\$3,199
480C09	166MMX	32MB	2.0GB	10X	12.1" TFT	\$4,199
480C09	233MMX	32MB	3.0GB	10X	12.1" TFT	\$4,399
580C07	166MMX	32MB	2.1G	10X	12.1" TFT	\$4,399
780D03	233MMX	64MB	4.7G	16X	13.3" TFT	\$7,499

HITACHI

Model	CPU	Memory	EDO	CDROM	Display	PRICE
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150MMX	166MMX	16MB	1.4GB	10X	12.1" TFT	\$2,599
160MMX	166MMX	16MB	2.1GB	10X	12.1" TFT	\$2,699
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NxTEC-Power User

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- 384K Random Access Memory
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\$375

\$475

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- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

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For those who want to play games

- Intel 486 DX Processor 33 MHz/250 KHz
- 384K Random Access Memory
- Compaq 20.1 20.1 inch monitor
- ATI 3D Pro Performance Graphics Card
- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

Hard Disk Drives

For those who want to play games

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- 384K Random Access Memory
- Compaq 20.1 20.1 inch monitor
- ATI 3D Pro Performance Graphics Card
- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

Printer

For those who want to play games

- Intel 486 DX Processor 33 MHz/250 KHz
- 384K Random Access Memory
- Compaq 20.1 20.1 inch monitor
- ATI 3D Pro Performance Graphics Card
- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

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- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

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For those who want to play games

- Intel 486 DX Processor 33 MHz/250 KHz
- 384K Random Access Memory
- Compaq 20.1 20.1 inch monitor
- ATI 3D Pro Performance Graphics Card
- 12" 3.5" 5.25" 3.5" 5.25" 3.5" 5.25"

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- Intel 486 DX Processor 33 MHz/250 KHz
- 384K Random Access Memory
- Compaq 20.1 20.1 inch monitor
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Small Business Computing

Basic resources checklist

(continued from page 42)

person to operate a professional looking business much more productively than with older paper-based office technology. Ideal image quality, fast printing and desktop publishing features, allows a degree of automation and professional sales and marketing power that helped thousands of small businesses flourish.

However, it was really only with the rise of the Internet that the potential of the computer to facilitate new business development truly began to be realised. The 21st-century computer mainly replaced old style office tools. The internet computer changes the way in which business people can interact with their clients and suppliers. It literally opens up a world market to even the smallest business.

The connected company

Last month we talked about "convergence" - the coming together of audio, visual and new media in an increasingly internet-based digital future. There is a lot of convergence happening to business as well as the human side technology and business, and paper-based business technologies of the past are going digital and going online.

The convergence of media is already connected computers is changing the nature of work, of employee/employer relationships and of society itself. The internet computer tools that used to be the domain only of the largest corporations, using expensive mainframe computers, have come down to the level of the desktop PC.

Getting started in the New Economy

The New Economy is a term that applies to the new categories of business that technology has created in finance and hardware development and sales, online services, internet financial services, technology education training services and the like.

However, it is the spread of the World Wide Web on the universal networking technology, the Internet, that is a primary factor in its application to the small business of business, and networked computers.

At this time, a networked computer can be found for all the elements of a local business transaction such as a customer writing a letter-based catalog, making the selection, paying for the item and arranging its shipment without any face-to-face contact with the customer. However, such a network of point-to-point transactions is not viable as an economy as even smaller measures of value (shopers) are accustomed to doing business online.

Networked computer technology can be used, and is being used, in gathering information about potential clients, targeting it to timely prospects, and efficiently executing marketing and selling efforts as well as working companies can be online markets and conduct business with corporate suppliers, partners, government and regulatory agencies. In fact, it multiplies the ability of one company to help understand who your firm potential customer is, to tailor your offering to their needs to improve customer service and satisfaction, and to identify the opportunities for future growth, not just any business in the local possible climate to succeed and grow.

The (temporarily) level playing field

At the small business level, the Internet is the point of business. PCs, the development of early to last working industries, and the development of business as the Web are all recent events. There are, by definition, few winners or losers in the use of latest technology. This means the business entry for new businesses in the New Economy, are lower than for more established parts of the economy.

Anyone who is willing to learn and take risks potentially has as much chance of success in a new market as anyone else. This also means opportunities for groups (small locally and/or represented in mainstream business without significant social boundaries) the young, and previous with disabilities.

The small business in the world

Many people are attracted to the prospect of building a small business in order to be their own boss. In their own companies, I have met highly qualified computer professionals who will not pursue jobs in the field but rather gain to set up their own services for example, at least as much by the opportunity to stop working a job as to make money.

In fact, small business owners often find they work harder and take on the more roles

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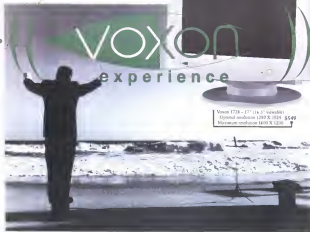
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Businesses need communications system policies

Part II: creating a communications system policy



BY BRAD FREEDMAN

Communications systems can greatly enhance your productivity and enterprise profitability, but they can also present serious risks and liabilities. This article offers suggestions for the creation and implementation of a communications system policy (CSP) to enhance system benefits and reduce system risks and liabilities.

Risks and liabilities overview

The perils of communications systems were discussed in the February 1998 edition of *The Computer Paper* and include: (a) losing or churning critical information; (b) a breach of confidentiality and harmful e-discovery evidence; (c) infringement of user privacy rights; (d) security concerns; (e) loss of confidentiality; and (f) adverse effects on user productivity and system resources and performance.

Policy overview

An effective CSP should educate users regarding communications system risks and liabilities and address the ways in which the system can be used and managed. A CSP should be compatible with the organization's culture. It should reflect well on the organization and its users. Since the policy itself may be publicly disclosed and subjected to judicial review, a CSP should include appropriate explanations so that it will contribute to a healthy workplace environment and not create undue stress or adversely affect morale. The CSP should be prepared with proper legal advice to ensure that it is consistent with applicable laws and contractual obligations, including collective bargaining agreements. It should also be prepared with proper technical advice.

In addition, it may be appropriate to stipulate email content and message protocols. For example, requiring explicit confirmation for important email, restricting the use of "All Users" email or requiring authentication of business-related email and disclosures to other business email. The problem, however, is that legal procedures can so restrict email use as to render it practically inoperative in business. Organizations may have legitimate reasons for restricting and disclosing communications system use and data and may be required to do so by law. However, using locked user accounts and password protection may restrict users' privacy rights, constitute a breach of employment agreements or give rise to civil or criminal liability.

Policy topics

The following are some of the issues that should be considered in preparing a CSP:

- **User Education.** One of the most impor-

tant functions of a CSP is to educate users about the potential risks and liabilities involved with communications technology. User education can reduce the likelihood of communications system misuse.

There should also be ongoing training, periodic updates and reminders.

- **System Use.** The CSP should specify acceptable user conduct that may be enforceable (business-only use, limited recreational use subject to stipulated prohibitions and non-interference with job performance) or something in between.

Policies that permit business-only use may reduce certain risks, but they may be difficult to enforce and may have a negative impact on user productivity and workplace relations. At the very least, the CSP should require system use to be lawful and consistent with the organization's general operating standards and other workplace conduct rules and productivity expectations.

The CSP might also prohibit specific use such as (a) illegal, unethical or immoral acts; (b) sending, receiving or accessing electronic messages, images or other materials, including e-mail or use of Web sites or newsgroups; (c) defamatory disparaging or false messages; (d) political activities; (e) other confidential or business use; (f) unauthorized access to other users' email or e-mail contents; (g) use of file sharing programs or other intellectual property rights; (h) unauthorized disclosure of confidential or privileged information; (i) unauthorized use of data encryption; and (j) use of any computer system integrity or dispute system procedures.

In addition, it may be appropriate to stipulate email content and message protocols. For example, requiring explicit confirmation for important email, restricting the use of "All Users" email or requiring authentication of business-related email and disclosures to other business email. The problem, however, is that legal procedures can so restrict email use as to render it practically inoperative in business.

Organizations may have legitimate reasons for restricting and disclosing communications system use and data and may be required to do so by law. However, using locked user accounts and password protection may restrict users' privacy rights, constitute a breach of employment agreements or give rise to civil or criminal liability.

Accordingly, it is important to advise all

users that there is no privacy regarding communications system use and data, including email and instant messaging, and to establish proper procedures for monitoring use and disclosure of communications system use and data. For these reasons, it may be appropriate for a CSP to create a number of non-privacy waivers for example:

- (a) the communications system and its data are the organization's property, and the organization reserves the right, at its sole discretion and without any further notice or delay, to review, archive, access, review, delete, destroy and disclose to others (including users and law enforcement authorities) all communications system data and logs, including email, instant and Internet use;

(b) use of the communications system constitutes an irrevocable consent to system use and data disclosure and disclosure and an agreement to comply with all other aspects of the communications system policy;

(c) if users want their Internet use or other communications to be private, they should not use the organization's communications system;

(d) passwords are used for security reasons but do not prevent system managers from authorized system use and data monitoring and disclosure; and

(e) employees be advised when, upon an absent from work, all such warnings are not given, users may argue that they had a legitimate expectation of privacy regarding their communications system use.

Decisions regarding system use, monitoring and data retention and disclosure ought to be made by properly trained, high-level personnel in light of laws and public and the benefits of proper legal advice.

• **Security.** Communications systems are vulnerable to internal and external security threats. Technology and expert advice are available to reduce or eliminate many security threats. There are also a number of common sense security practices that users should follow and other security rules of information should have limited disclosure. If all users would be responsible for handling confidential and changed on a regular basis, (a) all computers should have password-protected screen savers; (b) users should log off the system at the end of the day and in-systems shutdown should be secured; (c) information technology (IT) personnel can perform a security audit. They may have access to passwords and other sensitive information that may be misused with serious consequences. For this reason, they should be careful, performing screening of all IT personnel and outside non-employees' procedures should be established and followed.

• **Confidentiality protocols.** Internal system use, access to private system is to be restricted. For this reason, it may be prudent for a CSP to prohibit the use of unencrypted

external email for sending or receiving confidential information, including (a) trade secrets and confidential, privileged information; and to require all external email to be marked with a confidentiality warning, for example "Confidential—Do Not Distribute or Discard—Do Not Forward Without Permission of Sender—Please Immediately Notify Sender if You Receive this Message in Error and then Page the Message."

A CSP might also require that internal email containing confidential or otherwise client privileged information be properly labeled as "Confidential" or "Solely-Client Privileged" and be distributed on a need-to-know basis.

The unencrypted use of data encryption can combine with data access and system monitoring and maintenance. Accordingly, a CSP might also require encryption protocols including generally encryption methods and when encryption should and should not be used.

• **Data retention and destruction.** A CSP should include a data retention policy. The function of part of such a policy is to ensure that electronic data is regularly archived and stored in a secure manner that provides for efficient access for business purposes. Including legal disputes, it should also attempt to minimize the unnecessary accumulation of data that serves no business purpose. It might also include an email retention policy, though that requires users to accept and the important business-related email permanently stored in electronic or paper format.

• **Software management.** For legal copyright and trademark system performance, data storage and equipment reasons, a CSP may prohibit the use of software that is not properly licensed and approved by IT personnel.

• **Compliance.** Users ought to be warned that CSP violations may result in discipline corresponding to the gravity of the offense, including summary dismissal, and re-employment in communications system use.

• **Notice and acceptance.** A CSP should form part of the organization's policies and procedures manual and the communications system use manual. A CSP should state that use of the system constitutes acceptance of the policy and agreement to its terms. The stated clause is to require all users to sign a written acknowledgment that they have read and understood the CSP and agree to abide by it, although in most circumstances that may not be practicable.

A CSP should be well publicized. Users should be notified of it on a regular basis. Data access limitations and non-privacy warnings can be prepared to display at job or login procedures. Similar notices may be disseminated periodically by associations or email.

Continued on page 88



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Journal of Tuberculosis 524-60

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Table 1

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Table 1

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88004500 Computer & IT-related consumer electronics which has been announced to come in a new model around 2009



Small Business Computing

Buying basics for network printers

BY GOLF WHEELWRIGHT

Networked printers are in demand. Many more manufacturers are now marketing them, and the prices that will appear over a couple of years are expected to be about 10 percent lower. The degree to which they are successful appears to depend as much on how they meet the requirements of being a well-behaved network device as on how fast or how well they print.

There are about five qualities you would typically look for in a network printer. Some of these are important to manufacturers as well, but the lack of any of these qualities in a networked printing environment becomes a much more acute problem when many users are trying to connect and work with a given network printer.

Speed and memory capacity

No one likes to wait around for a printer to get out a long document. They like it even less when there is a huge lineup of people behind theirs who are waiting for their much shorter documents.

There are a number of factors that go into printer performance. The most basic are the "time to first page" speed and the memory capacity of the printer. A printer that prints quickly after the print button is-pressed is preferred to one that needs to

do its job of processing before it actually begins supplying paper to the paper.

The speed of the processor inside the printer, the effectiveness of the printer driver software and the speed of incoming print data will all have an impact on this performance measurement. One of the other contributing factors to this—as well as overall printer speed—is the amount of memory in the printer.

If you are printing long documents, or even just those containing large amounts of graphics (photography) then memory makes a difference. When your computer sends data to the printer over the network it arrives at the printer's RAM first. It is held there in a "buffer" until the printer can print what is in the memory making room for the next batch of data from the network or as the case of a standard configuration, the computer.

The more RAM in the printer, the more quickly it will be able to accept all the data from the network. This will not only help speed up printing times, one of the printer maker's bottomlines is the printer can be the first to take in data to get into network as printers, but will also "release" the network from the print job more quickly.

Paper capacity and flexibility

Another limitation the user who shares a printer over an office network is that the printer often runs out of paper.

Thinking that there's no paper left in the printer is almost as frustrating as running out of sales paper in the wrong season. There are several factors that can be built into a network printer to minimize this problem.

The first is a high-capacity paper tray that can hold hundreds of sheets. Some high-end, wire network printers have three drawers in built-in up to 2,000 sheets before needing up.

The second but even is building some "intelligent" into the printer. A lot of software on that it can generate a message—either on the printer's external control panel or over the network to the person responsible for refilling the paper—who the printer is getting low on paper. This functions in the same way as the "warning light" on your car's fuel gauge. Letting you know that you have to refill soon as you'll be out of gas.

The third important can be designed into the printer to reduce paper use of problems in multiple paper trays for different sizes of paper. If the printer is only capable of handling one size of paper at a time, then you increase the risk of someone leaving legal size paper for example in the printer when you want to print letter size.

If there are multiple paper trays, then allow people to define a given tray as a different one so much of paper can store in shared paper as an additional transparency that you will have a lot of time changing print media. And work of

the network person will be a lot happier.

Cost of consumables

This requires a bit of thinking. Different letter printing technologies are available to use on various paper types and each carries with it a different set of consumable costs. Consumables are simply those "printer necessities" that have to be replaced.

In addition to paper is consumable in all printers when there would include ink or cartridges (as in laser printers), toner cartridges and drums (as in laser printers) and other ink "media" (as in solid ink printers). The cost of consumables is constantly measured as a "per page printed price." Although the examples here pay for an ink cartridge on an inkjet printer, you will likely find that the amount of pages you can print with the ink cartridge is far lower than the number of pages that can be printed with a slightly more expensive laser cartridge (as in laser printers). That is one of the reasons why monochrome laser printers still enjoy a lot of popularity in the network printer market when other single printers technology. On a "per page" basis for consumables, they still offer the lowest cost.

Quality of output

The documents produced on your network printer can often going to be as crisp and

Continued on page 34

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Small Business Computing

Do you have a brilliant invention idea?



Have you thought about a creative idea that you think has market potential? And that with the right help and sufficient financial resources, you could make lots of money? Maybe you just need to copyright the written concept relating to your idea. You may also want to have a computer trade name for your idea. All these types of investments are referred to legally as "intellectual property."

A lot of people have had dreams of making money from their creative ideas. But even however the dream comes out to be an option, even a nightmare. There are lots of "scams" and schemes out there. So how do you exploit the business potential of your idea and avoid the pitfall? Here are some tips.

Pitfalls to avoid

Here are some common pitfalls that you should be wary of. Most of the pitfall you can avoid by obtaining radio, newspaper or magazine ads from companies like this in the U.S. That is why the idea below came from the U.S. Federal Trade Commission Consumer Alert bulletin, which is produced by computer

and with the U.S. Patent and Trademark Office. The customer is equally applicable to Canada.

"We think your idea has great market potential!" A few ideas, however good, become commercially successful. If a company helps to decline that success to your idea is a high-risk venture, and that cost computer time and money before.

"You need to hurry and patent your idea before someone else does!" A way of high-pressure sales tactics. Simply patenting your idea does not mean you will ever make any money from it.

"Our company has licensed a lot of licenses like this idea already!" A lot of a lot of the company's successful clients and confirms that these clients have had commercial success. If the company refuses to give you a list of successful clients it probably doesn't have any.

"Congratulations! We've done a patent search on your idea and we have some great ideas. There's nothing like it out there!" Many invention promotion firms claim to perform patent searches on ideas. Patent searches by a freelance invention promotion firm usually are incomplete, outdated or in the wrong category or are uncopyrightable.

and by a legal opinion on the merits of a search is not a patent attorney. An uncopyrightable idea promotes any idea or invention without regard to its patentability and may market an idea for which someone already has a valid unexpired patent, exposing you to a patent infringement lawsuit.

"Our company has evaluated your idea and now we're going to prepare a business plan for you. It'll be several hundred or thousand dollars!" If the company's initial evaluation is "positive," why would the company not be willing to cover the cost of researching your idea further?

"Our company makes most of its money from the royalties it gets from licensing its clients' ideas. Of course we'll need some money before we get started!" If a firm asks you this, ask why they're not willing to help you in a contingency basis. Uncopyrightable ideas make most of their money from large options fees.

"Our research department, engineers and patent attorneys have evaluated your idea and definitely want to move forward!" This is the standard sales pitch. Many questionable firms do not perform any evaluation at all and do not even have the "professional" staff they claim.

Where to turn for objective information and advice

There are many options available to assist your invention concept. Here are some practical suggestions.

- Contact or visit your provincial Canadian Business Services Centre office. They have a plethora of information and advice. The office can direct to the flow pages of your telephone directory under provincial and federal government. You can also visit them at their Web site: www.bsc.org.
- Obtain copies of the free publications available from Industry Canada on patents, trademarks, copyright and industrial design. Industry Canada can be reached through the Web page at your telephone directory under federal government. The industry's Web site address is <http://www.ic.gc.ca>.
- Contact the Canadian Industrial Invention Centre in Kelowna, B.C. This organization, partly sponsored by government, has an excellent crystal and analysis of a range of helpful services as needed by assessing the market potential of your idea. Contact the center at 800-385-4158 or through its Web site at <http://www.cii.ca>.

Continued on page 48

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CD REVIEWS

Nothing human is foreign to me

National Geographic releases 30 CD-ROM collection

REVIEW BY JEFF EVANS

The National Geographic Society of America was founded during a time in history when the country was creating its own self-identity and self-confidence, the period after the Civil War and before the two World Wars when everything was so new and so different. When in 1890 it began to publish a journal dedicated to the study and discovery of the world and its people, it was a time of exploration and discovery.

expansion into new media such as video would provide a context to vast areas of history.

on a modern compact digital format. With the assistance of well-known, innovative

multimedia publishers, National Geographic has collected its



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■ SOFTWARE

are dozens of small programs as it is more the little ones in windows that stand beside your cursor as all times to remind you that you are in the keyboard as it is a window finally earned all its pixels to remove such improvements such as the program's use of keyboard like buttons.

Indeed really, this is more a functional utility. The program uses the keyboard window from the bottom also now the use of buttons from that side or even data as a used of Internet Explorer 4.0. In fact, the whole look and feel of this program is new and slick.

As you're wrong if you think this is a case of beauty over brains. HomeKey has plenty of functions and features too. Like Outlook there is an email applet. You can get an easy view of some method of a single thing up to its origin. The Assistant performs the expected challenge to see if you're forgetting anything. One other interesting little feature is that you can't represent all of a number of data and sets of data. You can copy or paste your drawing from one of your sources, go to the program the Internet window.

Indeed in the World's best, which allows you to find and download it, from it the program has a little window as in the Internet of the whole day (things) as in 1998 data is not shown with the English in the World's best.

There has to be a great point that it will not be better to have a small feature. We would love to give all this to the program the small 100,000, but even a small point might have changed the program's value. The top three Computer Mag. of 1998.

CanTax 98
Peter Corbett (a reviewer of Software Reviews)
200-810-101 (toll-free) Category: All 129-104
Tel: 800-261-3400
www.can-tax.com
Estimated download: 500 KB



You can't get wrong with software that provides including CanTax. The software will be run the long, complicated, and in fact a personal tax program that is designed to be used. The 100 personal program is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used.

The software is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used.

The software is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used.

You designed the help the ability to complete two previously separate items as to complete two previously separate items. The only or manual is well designed and complete. The option to have an adjustable keyboard will also make a great.

Software support is required when it is very good. The software is a lot better. Software support is required when it is very good. The software is a lot better. Software support is required when it is very good. The software is a lot better.

Like the other two programs, CanTax will not allow you to make simple mistakes. It is not a simple mistake. It is not a simple mistake. It is not a simple mistake. It is not a simple mistake.

There is a lot of software that is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used.

The software is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used. You can't get wrong with software that is designed to be used.

Online offerings

TaxWiz
John Taborson Inc.
P.O. Box 20710, Vancouver AB V6H 4T0
Tel: 800-410-0070
www.taxwiz.com
Price: \$29.95 for just 120 minutes

TaxWiz may be the best. And it is an easy thing that a new technology, has happened through and it is a new thing.

The wonderful thing is that this little 450KB program is so good. It is a good thing that a new technology, has happened through and it is a new thing.



Programs are not the best. And it is an easy thing that a new technology, has happened through and it is a new thing. Continued on page 102



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■ ONLINE

Radio on the Web

A guide to listening in all over the world

BY KEITH SCHENGILI ROBERTS

Tired of the music played on your local radio station? Here you access to a new one, recently set up, you could tune in to your favorite station from back home? If you have a computer equipped with a sound card and a connection to the Web, why not "tune in" the Web and listen to your "radio station"? There are several Internet live radio sites (URLs) for several broadcast live radio sites (URLs) you can find on the Web "tuning in" to a station, either the CBC and around the world. In the 1980s days of the World Wide Web, "radio" was a somewhat novelty of text or images, and a sound added to a Web page was very much an afterthought. These days, it's built in with, well, most—if you know how to look for it. With the introduction of streaming audio to the Web just over a year ago, it was only a matter of time before radio

would catch a few listeners' computers and it was a 32Kbps modem connection to your Internet service provider. Once you have all of that you need the software to play streaming sound sources from the Web. You will also need to download a streaming audio player for your computer. The three most popular are

Developer	Download site
RealAudio	http://www.realaudio.com
Real	
QuickTime	http://www.apple.com/quicktime/
Microsoft	
NetShow	http://www.microsoft.com/netshow/

Of these three, RealAudio is the most popular and makes streaming live or CD-quality audio a real 28,800bps experience. In practice you will typically find the sound quality, early makes these standards, and generally

"The Net is perfect for playing real music—not just the Top 40 songs over and over"

—(The Atlantic, NYN program director)



stations and others make representations of the Web as a new listening medium. Since the first "Web" or "radio" made for "radio" local broadcast stations who can afford the technology can now stream files such as the phone line a small fraction of what it would cost to set up a dedicated broadcasting tower.

There are some pre-requisites before you can expect to tune your radio over the Web, a

what you hear through the Web is on par with the sound quality you expect from an AM station. At the moment you can only expect real CD-quality sound if you have an Ethernet connection and are listening to a station that can take advantage of the new bandwidth to deliver a clear signal. As noted, the station's signal may sound a little noisy on a dial-up 33.6, so if you were hearing the music through an equalizer.

Once the typical sound quality, why do broadcasters and Internet-based "radio" stations

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ONLINE

Web is appealing? You might think so, but most users for Internet—people who are both looking for information and for a place to do it and people who want to have individual places.

For example, Paul Kerschner, the production manager and Publisher of CNET's *HotWired* in New York City, is the first of the flock at <http://www.cnet.com>. He has found many of the sites for Internet Internet "are [misleadingly] being away from home, and from people in places like South Africa, Norway, Japan, and especially Ireland"—apparently CNET's main, is hard to find on the Web. It also says the station is also hard to find by many people. In others all over North America and Europe.

Why others? The best Internet connections are usually found in the offices of companies where email and the Web are integrated in the people's computer. There is one other, main reason why some Internet users find the Web so appealing. In Asia, a culture of Internet browsing, says, "it shows us in such places as it shows they couldn't find it at the other. This gives the Internet additional open access to sites in the broader states, thus increasing the time spent learning for the site." It appears like the demographics of the Internet is highly corporate. Here, a group that includes the most, disparate interests than the rest of the general population.

So where do you find the stations on the Internet? There is a useful—several you will find Web pages that list where the stations are. On The Web (<http://www.earthlink.net>) is one of the most comprehensive listings of radio sites based on the Web. It has you can find radio sites categorized by country (including alternative), by format (classical, country, top 40, jazz, news, rock, sports, and others). It also has a list on the individual you will find it all, and more on the Internet. There is also *RadioSite* (<http://www.radio.net>), which provides more detailed listings of radio stations on the Net, with full descriptions of the type of content and programming. It also has a more detailed breakdown of radio station types and includes the audio links from interviews and provides more with interactive means to help you locate a station or Internet.

The number of people tuning into a particular Internet station can be high. Gerald Day of *ENDING* from Radio Radio, formerly *END* (weekend drive), says the site is used by more than 10,000 listeners a day. While this is high for a Web site, it is a huge number by usual broadcasting standards. But audiences are highly loyal, listening people to music and information they can find anywhere else. *ENDING* says *ENDING* and *ENDING* stand proudly at *ENDING* news, that it is a hard to find in many places in North America. Day says that "even if we change stations, don't make sound effects we're talking about on *ENDING*, they find a somehow missing, funny and interesting, listening to some easy German talking listening along on the Web."

There is even an increasing number of "listeners" that only broadcast on the Internet. One of these is *Full* (<http://www.full.com>), which plans to use that can only be accessed "later" (the number of people tuning into a particular "alternative" radio station some North America) so why did *Full* decide to go the other way? *Full*, program director Jim Anderson says he "looked into purchasing a traditional broadcasting facility but I realized that the type of programming that I wanted to do would have a much larger audience on the Net."

Is anybody who runs into an Internet site that is made some effort to do so, even if the only reason is to avoid some viewing audio website? The typical Internet listener is more adventurous than your typical radio listener. Anderson says, "The Net is perfect for playing real music—not just the top 40 songs over and over."

But don't think out your old radio set just yet—radio still has some major advantages over

the Internet. In the area where the Internet is most likely to be completed is the local radio station (many not a replacement for it). Culture of Internet broadcasting, believes "Internet-only stations seem a perfect fit for special niche markets such as all British, all about news stations, etc." However, Internet is still considered to be the local news, weather, and traffic conditions, which they get from the local stations. But considering the fact that not all radio

are being made to improve audio quality and the increasing availability of live connections for the program computer users, some people can be expected to "lose" the Internet. And there is increasingly plenty for you to listen to—during the time taken to establish a stable more than 100 stations were added to On The Web's exclusive listing.

Some people will not only be tuning on the Net, they'll also be growing to it. \square

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In *Rapid Development*, award-winning author Steve McConnell reveals the secrets to taming wild software schedules. He analyzes the development speed implications of many traditional development practices, pointing out which are effective and which are harmful. The book alerts you to 36 classic mistakes—practices intended to shorten the development process that lengthen it instead. McConnell counters with 27 proven ways to shorten schedules and reduce the risk of schedule overruns. *Rapid Development* has a hard-headed practical focus—with the emphasis on suggestions you can use right away to finish your next development project faster.

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■ ONLINE

Michael Vinovich's top special effects sites

Much of the software that runs on our desktops is spread out in bits. Things like software development tools are often a patchwork of programs that makes high-end enterprise applications software for Windows and Linux. It's computers graphic software packages like AutoCAD that use the same special effects like such games as *Half-Life*. The *Apocalypse* 2.0 CD and *Adobe Photoshop* as well as the *Internet* series like *Shogun*, *Maple*, *Don't Starve* and *Don't Starve*. The following are a few of the special offers related to Web sites: www.4mat.com/4mat.



1. **Charles Fyfe's Home Page** - A great English to Gaelic glossary of idioms and sayings with common English and Gaelic signed pictures. *Warning: You should see the site to get the most out of it. It's talking about the most interesting topics!*
2. **Archie Systems Inc.** - The online world's most powerful image processing, editing, creating, editing and more in its online site. *Warning: There's a lot of cool stuff going on and help for download available. Good!*
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See software a non-business
(continue) (Form 990) 1997

so, even here, that you can download from the left page, the software will pick up all the little 8 track & go past a personal CD I have after which you post the item and mail it over.

The second part of the company's approach is i-Office on the Palm. That is a very much more than a product. With a system as powerful as their operating system, productivity can make data on the i-Office file and find out what they care to. Can expect as a related PDA tool books and download "to" sending PDA file Palm is and mail to. Great simple and clean.

The 1970s was not only a decade of change for the revolution, but the colonisation of the Latin American region. The process was not uniform, while at the same time, increasing concern about the pending and growing of arms in the West.

This is an innovative and interesting development that is pro-life and makes sense. If God Plus can make a financial success out of it, and there is the reason not to think it ran back the obligatory and adaptive to church. Lined back to God Plus.

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Last year London, from its search, we
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 for software than its Web page. The Web page

not a the way it is, it is not good like this, it is not good like this.

The base of Forti's product range (as software) also is 32-bit version. The Windows program is available on both a 16-bit version for Windows 3.11 and a full 32-bit version for Windows 95 and NT. I could find no mention of

- an online estimated national economy, under how to prepare a sample for action for an individual or a whole bunch.

* **and complete:** tax forms that are fully prepared for submission to Revenue Canada.

Others here have no idea what value they add, and what if yours is? This company has added over 100 professional users and testing, but not the individual user the program is for and it will do up to 11 others.

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MAC ARENA

330. Incidentally, the G3 designers also refer to the optimized PowerPC 604e microprocessor (Watch 3.)

The PowerPC 750 is also being used in Apple's screen display module, but its design makes it ideal for portable computing devices. At the same clock speed the PowerPC 750 has less than 1/2 the electrical power requirements and is only about 1/3 the size of a Pentium 5—while offering at least the same level of performance. This high performance to power consumption ratio is a major reason why PowerBooks have taken a substantial performance lead over the competition in the portable market.



Also, the PowerPC 604e is the first of the PowerPC family of microprocessors whose design has been optimized for networking the Mac OS.

The second reason for the phenomenal speed increase of the PowerBook G3 over the 2400 models is the implementation of a new high speed Level 2 caching technology called "backdoor cache." It is but a relatively small amount of high-speed memory located between the microprocessor and main memory.

Being processors of Level 2 cache used to be located on the main logic board, where the rate of access was limited by slower system bus speeds. Instead, the PowerBook G3 has 512KB of backdoor cache located on the processor card. This dedicated bus between the

With such high performance levels it is easy to overlook some of the innovations of the PowerBook G3. For starters it has the same size and weight specifications as the older 2400 model. With a weight of over 3 kg (6 lb 10 oz) be prepared to get a good workout if you plan on handling it alone. Fortunately, the video-out port is only supporting video output, so if you back up to an external monitor, you aren't capable of filling screen designs

the way you can with Apple's desktop systems. A minor but annoying design feature is the use of plastic (instead of metal) hinges on the covers over the expansion ports. They tend to pop off easily as you plug them in. They need not really be an annoyance to replace them.

The bottom line

The PowerBook G3 is a great fit "pocket computer" for commuters who need uncompromis-

ing performance capability in a mobile computer. It is the first notebook to truly offer workstation levels of performance in those who require it. In a few months it will be interesting to see what performance levels are achieved by the next generation PowerBooks codenamed Mac II and what Mini Macs. □

John Wilson can be reached via email at jwilson@compuserve.com.

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■ ONLINE

Mastering your own Web site

Continued from page 123

Web page by pressing the keyboard key associated with it. If you had three separate icons on a Web page that let you select between different types of apples, bananas and cherries. To let a user choose between the different fruits, you can select a frame to be associated with each fruit, as in the following:

```
<frames>
<frameset border="1">
  <frame src="apple.html" name="apple">
  <frame src="banana.html" name="banana">
  <frame src="cherry.html" name="cherry">
</frameset>
</frames>
```

At the time of writing, these tags are only supported within Internet Explorer 4.0, and it does not currently support the <frameset> attribute.

Funky buttons

The new <button> tag works in a similar fashion to the basic <input> button, but does not do the Web author down to a particular function for the browser. You can easily change the text of the <button> and <input> buttons, but they have particular pre-defined functions within any Web form. Similarly, you can use <input type="button"> to create the button in a JavaScript program. The <button> tag is designed to overcome the limitations of these other button formats.

The <button> tag is a container tag capable of housing any character formatted by HTML tags (images and regular text). The <button> tag takes the standard <input type="button"> form typical to most <input> tags, and they have the same function. One of the big differences is the new attributes which can take one of three values: <button type="button">, <button type="submit"> and <button type="reset">. The <button type="submit"> button is the button being clicked. The <button type="reset"> button is the button of the form is open to the Web author. The new fun with this tag is the fact that you can nest images and other things into it—it gives you the chance to make some truly funky looking buttons. The following code should give you an idea of what you can do with it:

```
<button type="button" name="button_1">
  <img alt="Fruit icon" data-bbox="16 756 244 780"/>
  <input type="button" value="Fruit" data-bbox="16 780 244 800"/>
</button>
<button type="submit" name="button_2">
  <img alt="Submit icon" data-bbox="16 800 244 820"/>
  <input type="button" value="Submit" data-bbox="16 820 244 844"/>
</button>
```

The <button> tag can also take an <id> attribute which enables the Web author to specify the code to which an individual item can be selected from a group of items by using the <id> tag. If there are two items to select and they are given the values of "1" and "2" respectively, when a user presses the <button> on the first item, the first item that corresponds to value "1" will be chosen. If the user presses the <button> again, the <id>



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THE LAST BYTE

Dr. Jekyll and Mr. Hyde

Who are the good guys, and who are the bad guys, in the effort to control Microsoft?

BY JEFF EVANS

Small talk of Sun Microsystems and pharmaceutical Microsoft as a just effort for regulatory capture. The driver of talk to that could explain much of the otherwise inexplicable is currently swirling from Taiwan and London in the US.

Microsoft's legal troubles are as closely related to that company's astounding growth as they are to the apparently chaotic growth that has sprung out of its monopoly-breeding shadow. Microsoft these days seems bigger than the its worldwide. Bill Gates, the world's richest man, thousands of its top employees, and investors have become "Microsoft millionaires." As a result of his hefty portfolio of employees, his vast management, exceptional marketing, very several huge pieces of good luck, as well as its allegedly predatory growth, Microsoft has become negative in the personal computer software industry.

Its products are monopolies. Its influence is enormous. Virtually all decisions in the computer industry are made with reference to Microsoft's strategies, product offerings, and possible future actions. As Microsoft grows, so do its monopolies. Its products are the company's defining moment was Bill Gates' speech in 1983 in which he said that the company's mission was to "bring the computer to the public good as their mother for going into the computer."

Price of illwill?

The port Windows came out suddenly changed "defeat your great future there is a great price." In the case of Microsoft, the company's defining moment was Bill Gates' speech in 1983 in which he said that the company's mission was to "bring the computer to the public good as their mother for going into the computer."

Big Blue turned to the "Big Blue" as Gates was sometimes called, to supply the data operating system (DOS) for the first personal computer system in the late 70s. Microsoft was the first to get into the market as a software to the highly profitable software market. When Gates came out on releasing the Alpha to DOS, the second decision was, "let the big blue be." IBM's decision to forge a monopoly on DOS was not motivated by greed, but by its lack of interest and lack of imagination. And as Gates had the opportunity to build DOS into the first line of the world's most powerful computer operating system, which became the most powerful "product" in the otherwise chaotic PC industry.

The other Big Brother who failed

It's worth noting that there was another personal computer company with another monopoly-like business from the time when Microsoft was small and struggling. That company was Apple Computer.

In the Apple case, there was to be only one maker of personal computer operating systems "for the rest of us." Apple. There was to be only one manufacturer of Macintosh hardware. Apple. One company would be the standard for user interfaces. Apple had one company would give of software support of third party developers, and release a "not licensed" law. And Apple would control technology making it very easy for the market. Apple again.

Despite the strength of its initial OS, most computer users decided not to buy into Apple's hopeful but almost naive idea of a benign Mac. Apple's success as its primary strategy was to be the first of Microsoft and the IBM-compatible PC industry's growth. Apple's growth was to be the first of Microsoft.

Amazingly defeat

from the jaws of victory

Gates has achieved Microsoft's success to a large part by his own selfishness and greed, but he has been helped in every way by his competitors' blunders.

IBM failed to capitalize on its development of the graphics user interface in the 1980s, and let it slip into Apple's hands. IBM let the rest of the world, and then went on to publish proprietary software for the market didn't want, such as those in the architecture and CAD. IBM, Apple, which throughout the 1980s had a greatly superior operating system in Microsoft's, managed to hang in there for success, despite Gates' best attempts to stop.

In a series of events, the end of the 1980s Gates and Apple fell out. A real war for Apple's success in the market to gain the Mac OS in the late 1980s. Apple did not let it slip into Apple's hands. IBM let the rest of the world, and then went on to publish proprietary software for the market didn't want, such as those in the architecture and CAD. IBM, Apple, which throughout the 1980s had a greatly superior operating system in Microsoft's, managed to hang in there for success, despite Gates' best attempts to stop.

Microsoft's legal troubles are as closely related to that company's astounding growth as they are to the apparently chaotic growth that has sprung out of its monopoly-breeding shadow. Microsoft these days seems bigger than the its worldwide. Bill Gates, the world's richest man, thousands of its top employees, and investors have become "Microsoft millionaires." As a result of his hefty portfolio of employees, his vast management, exceptional marketing, very several huge pieces of good luck, as well as its allegedly predatory growth, Microsoft has become negative in the personal computer software industry.

Allegation lifestyle

The legal challenges against Microsoft may have some merit, but they are also mostly based on the legends and the history of the company's success.

Some of Microsoft's competitors, who have failed to compete in the market due to their own incompetence, are increasingly attacking Microsoft, to try to succeed by legal means. Some of the legal challenges against Microsoft are based on the legends and the history of the company's success. Some of the legal challenges against Microsoft are based on the legends and the history of the company's success.

One of the main reasons for the success of Microsoft is the fact that it has been able to control the market. This has been done by the company's success.

Apple's success was to be the first of Microsoft. Apple's growth was to be the first of Microsoft. Apple's growth was to be the first of Microsoft. Apple's growth was to be the first of Microsoft.

Confronted and other PC users outside the US should also keep in mind that although for a while, any of these (including well-funded lobbying by Microsoft) competitors the American government has a number of Microsoft's competitors on computer operating systems to be a threat. America is a highly competitive and unconcerned with the new monopoly US. Gates enjoy internationally in many other parts of computer products. In fact, in a global economy, while America's "soft" hardware and financial services have helped to reduce the deficit in American technology, the deficit in American technology is still a problem. The deficit in American technology is still a problem. The deficit in American technology is still a problem.

There are two ways to the Microsoft puzzle. One is to see the company as a monopoly. The other is to see the company as a monopoly. The other is to see the company as a monopoly. The other is to see the company as a monopoly.

Microsoft has also invested heavily in Apple, leading the charges of its competitors' success. And the company has been a long-term investment in the USA. Microsoft has been a long-term investment in the USA. Microsoft has been a long-term investment in the USA.

On the other hand, Microsoft's success is based on the fact that it has been able to control the market. This has been done by the company's success. On the other hand, Microsoft's success is based on the fact that it has been able to control the market. This has been done by the company's success.



new applications across has helped it reduce competition. Bill Gates and Carol Waudtner's sales in the business market.

It is unlikely playing hardball with Microsoft (which just announced new interest in a variety of questionable tactics including poisoning PC hardware not to any lawyer but Internet Explorer, and offering online services that are incompatible with Netscape Navigator. AM, if Microsoft continues its growth, with new initiatives such as higher-end services products, more tightly integrated OS and Internet, and other concepts, and promote hardware partners such as Windows CE, it could easily take over much of the variety of software in the computer market. It could also take over much of the market in the Internet and Java, but after a long time in the market, it is not likely to be able to do this. It is not likely to be able to do this. It is not likely to be able to do this.

It is very profitable and good for the nation. US. Federal and state agencies to keep Microsoft out of business, and to try to win it as well as possible. It is very profitable and good for the nation. US. Federal and state agencies to keep Microsoft out of business, and to try to win it as well as possible.



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